

## **ABSTRACT**

A process for reducing the content of  $\text{NO}_x$  and  $\text{N}_2\text{O}$  in gases, in particular in process gases and offgases, which comprises the measures: a) addition of at least one nitrogen-containing reducing agent to the  $\text{NO}_x$ - and  $\text{N}_2\text{O}$ -containing gas in at least the amount required for complete reduction of the  $\text{NO}_x$ ; b) addition of a hydrocarbon, of carbon monoxide, of hydrogen, or of a mixture of one or more of these gases to the  $\text{NO}_x$ - and  $\text{N}_2\text{O}$ -containing gas for the reduction of the  $\text{N}_2\text{O}$ ; and c) introduction of the gas mixture into at least one reaction zone at temperatures of up to 450 °C, which contains one or more iron-laden zeolites. The process can be used, in particular, in nitric acid production, for offgases from power stations or for gas turbines.